```
CTCAACCACAGACTACACTTGCTGAACTGGCTCCTGGGGCCATGAGGCTGTCACTGCCAC
+---------+---------+---------+---------+---------+---------+
GAGTTGGTGTCTGATGTGAACGACTTGACCGAGGACCCCGGTACTCCGACAGTGACGGTG
                                        M  R  L  S  L  P  L


TGCTGCTGCTGCTGCTGGGAGCCTGGGCCATCCCAGGGGGGCCTCGGGGACAGGGCGCCAC
+---------+---------+---------+---------+---------+---------+
ACGACGACGACGACGACCCTCGGACCCGGTAGGGTCCCCCGGAGCCCCTGTCCCGCGGTG
  L  L  L  L  L  G  A  W  A  I  P  G  G  L  G  D  R  A  P  L


TCACAGCCACAGCCCCACAACTGGATGATGAGGAGATGTACTCAGCCCACATGCCCGCTC
+---------+---------+---------+---------+---------+---------+
AGTGTCGGTGTCGGGGTGTTGACCTACTACTCCTCTACATGAGTCGGGTGTACGGGCGAG
  T  A  T  A  P  Q  L  D  D  E  E  M  Y  S  A  H  M  P  A  H


ACCTGCGCTGTGATGCCTGCAGAGCTGTGGCTTACCAGATGTGGCAAAATCTGGCAAAGG
+---------+---------+---------+---------+---------+---------+
TGGACGCGACACTACGGACGTCTCGACACCGAATGGTCTACACCGTTTTAGACCGTTTCC
  L  R  C  D  A  C  R  A  V  A  Y  Q  M  W  Q  N  L  A  K  A


CAGAGACCAAACTTCATACCTCAAACTCTGGGGGGGCGGCGGGAACTGAGCGAGTTGGTCT
+---------+---------+---------+---------+---------+---------+
GTCTCTGGTTTGAAGTATGGAGTTTGAGACCCCCCGCCGCCCTTGACTCGCTCAACCAGA
  E  T  K  L  H  T  S  N  S  G  G  R  R  E  L  S  E  L  V  Y


ACACGGATGTCCTGGACCGGAACTGCTCCCGGAACTGGCAGGACTACGGAGTTCGAGAAG
+---------+---------+---------+---------+---------+---------+
TGTGCCTACAGGACCTGGCCTTGACGAGGGCCTTGACCGTCCTGATGCCTCAAGCTCTTC
  T  D  V  L  D  R  N  C  S  R  N  W  Q  D  Y  G  V  R  E  V


TGGACCAAGTGAAACGTCTCACAGGCCCAGGACTTAGCGAGGGGGCCAGAGCCAAGCATCA
+---------+---------+---------+---------+---------+---------+
ACCTGGTTCACTTTGCAGAGTGTCCGGGTCCTGAATCGCTCCCCGGTCTCGGTTCGTAGT
  D  Q  V  K  R  L  T  G  P  G  L  S  E  G  P  E  P  S  I  S


GCGTGATGGTCACAGGGGGGCCCCTGGCCTACCAGGCTCTCCAGGACATGTTTGCACTACT
+---------+---------+---------+---------+---------+---------+
CGCACTACCAGTGTCCCCCGGGGGACCGGATGGTCCGAGAGGTCCTGTACAAACGTGATGA
  V  M  V  T  G  G  P  W  P  T  R  L  S  R  T  C  L  H  Y  L


TGGGGGAGTTTGGAGAAGACCAGATCTATGAAGCCCACCAACAAGGCCGAGGGGCTCTGG
+---------+---------+---------+---------+---------+---------+
ACCCCCTCAAACCTCTTCTGGTCTAGATACTTCGGGTGGTTGTTCCGGCTCCCCGAGACC
  G  E  F  G  E  D  Q  I  Y  E  A  H  Q  Q  G  R  G  A  L  E


AGGCATTGCTATGTGGGGGGACCCCAGGGGGGCCTGCTCAGAGAAGGTGTCAGCCACAAGAG
+---------+---------+---------+---------+---------+---------+
TCCGTAACGATACACCCCCTGGGGTCCCCCGGACGAGTCTCTTCCACAGTCGGTGTTCTC
  A  L  L  C  G  G  P  Q  G  A  C  S  E  K  V  S  A  T  R  E
```

FIG. 1A

```
AAGAGCTCTAGTCCTGGACTCTACCCTCCTCTGAAAGAAGCTGGGGCTTGCTCTGACGGT
+---------+---------+---------+---------+---------+---------
TTCTCGAGATCAGGACCTGAGATGGGAGGAGACTTTCTTCGACCCCGAACGAGACTGCCA
  E  L  *


CTCCACTCCCGTCTGCAGGCAGCCAGGAGGGCAGGAAGCCCTTGCTCTGTGCTGCCATCC
+---------+---------+---------+---------+---------+---------
GAGGTGAGGGCAGACGTCCGTCGGTCCTCCCGTCCTTCGGGAACGAGACACGACGGTAGG


TGCCTCCCTCCTCCAGCCTCAGGGCACTCGGGCCTGGGTGGGAGTCAACGCCTTCCCCTC
+---------+---------+---------+---------+---------+---------
ACGGAGGGAGGAGGTCGGAGTCCCGTGAGCCCGGACCCACCCTCAGTTGCGGAAGGGGAG


TGGACTCAAATAAAACCCAGTGACCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
+---------+---------+---------+---------+---------+--
ACCTGAGTTTATTTTGGGTCACTGGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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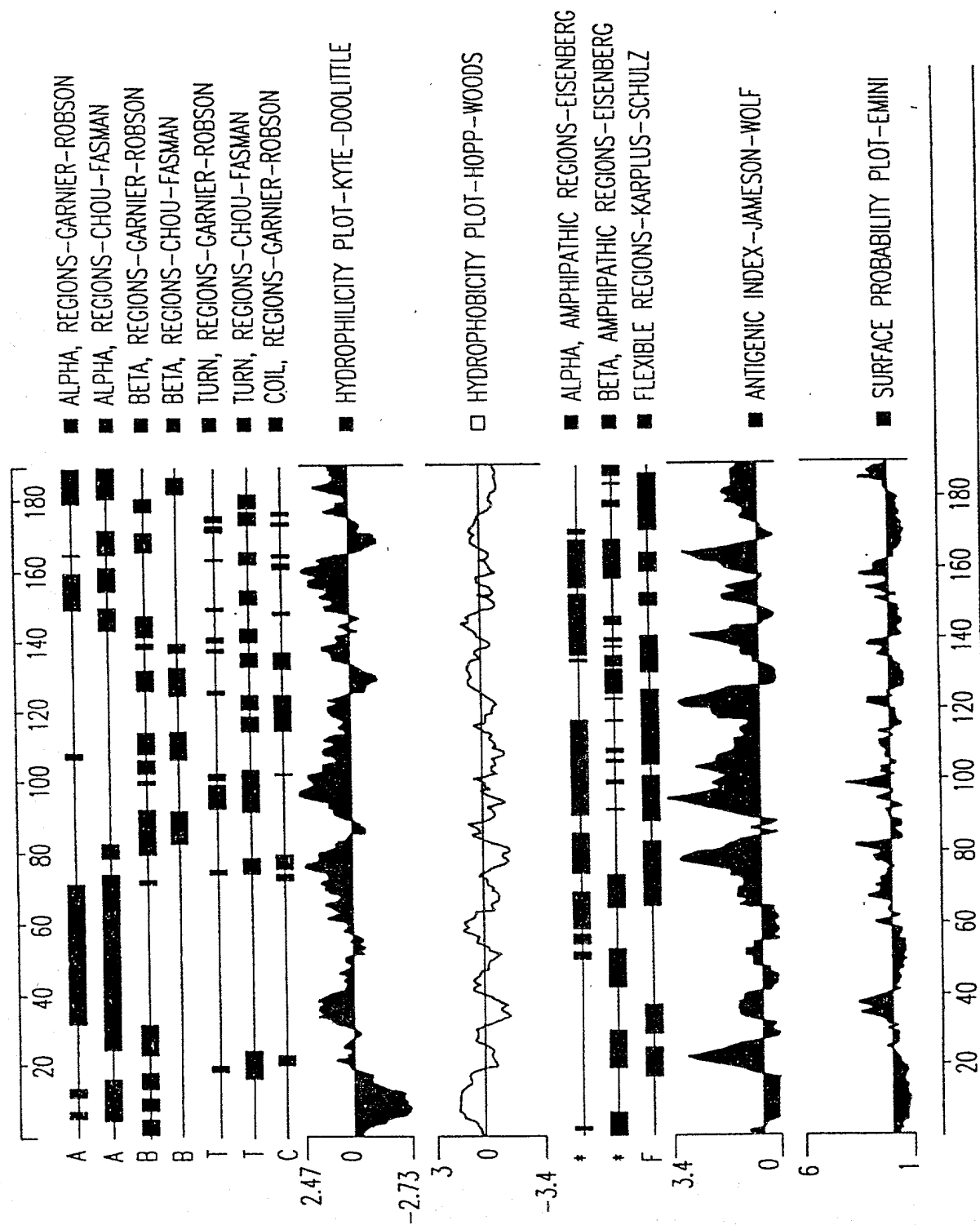
FIG. 1B

FIG.2